

group consisting of a metal salt, an organic acid, a protein, and a sugar and a derivative thereof; a glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone; and a buffer.

In another aspect of the invention, the method for stabilizing glucose dehydrogenase for use in glucose sensors includes adding a stabilizer and a buffer to glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone.

In yet another aspect of the invention, a glucose dehydrogenase composition for use in glucose sensors contains: at least one stabilizer selected from the group consisting of a metal salt, an organic acid, a protein, and a sugar and a derivative thereof; a glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone; and a buffer.

B) The buffer is selected from the group consisting of maleic acid, a maleate, succinic acid, a succinate, triethanol amine, a triethanol amine salt, citric acid, a citrate, dimethyl glutaric acid, 2-(N-morpholino)ethane sulfonic acid, a 2-(N-morpholino)ethane sulfonate, tris(hydroxymethyl)glycine, a tris(hydroxymethyl)glycine salt, tris(hydroxymethyl)aminomethane, a tris(hydroxymethyl)aminomethane salt, imidazole or colicin.

The stabilizer can be a metal salt selected from the group consisting of a calcium salt,  $\text{CaCl}_2$ , a strontium salt and a manganese salt; an organic acid selected from the group consisting of  $\alpha$ -ketoglutaric acid, malic acid, fumaric acid, gluconic acid, cholic acid and deoxycholic acid; a protein selected from the group consisting of bovine serum albumin, egg albumin and gelatin; a sugar or a derivative thereof selected from the group consisting of a monosaccharide and a derivative thereof, a disaccharide, and a derivative thereof, an oligosaccharide and a derivative thereof, and a polysaccharide and a derivative thereof; a monosaccharide selected from the group consisting of glucose, fructose, galactose, mannose, xylose, inositol, monnitol, sorbitol, ribitol, glucosamine and deoxyglucose, or a derivative thereof; a disaccharide selected from the group